

# Receiving Report

Date: 12-5-4

Batch No: DA660

Supplier: ThyssenKrupp

Dart P/O: 16883

Packing Slip: Yes ☒ No ☐  
 Invoice: Yes ☒ No ☐  
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☐ No ☒ N/A ☐  
 Waybill Attached: Yes ☐ No ☒  
 Shipment Complete: Yes ☒ No ☐ N/A ☐  
 QC6 Inspection ML 1210504 N/A ☒  
 Work Order                      N/A ☒

## Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments
m174B1	250X02.000	12	0		12.	
m303B2	1500X2.000	4	0		4	
m7075	173B2.500X03.25	4	0		4	

Initials of receiver (if shipment OK) Level 12                     

Production/Admin:                       
 Date: 12-5-4  
 Received/Costing                       
 Initial: SP

Location SP

# Purchase Order Receipt Listing

Friday, May 04, 2012 1:11:31 PM

All amounts are calculated in domestic currency.

All Vendors PO ID PO16883 Receipt Dates from 5/4/2012 to 5/4/2012 All Line Item Types  
All Item ID/GL/WOS All Rec. Employees All Currencies  
Grouped by Vendor ID

Purchase Order ID/ Cur Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date	Recv Date/ Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ Reject Qty	Book Amt
Vendor ID/Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO16883	3		M304S18GA sf		5/9/2012	5/4/2012	96.0000	\$3.95	0.0000	0	\$378.97
CAD	No		304/316 .050 Sheet sf		96.0000	DESI02		\$378.97	0.0000	0	
			121660								\$106.28
	4		M5052H32S.032 sf		5/9/2012	5/4/2012	96.0000	\$1.11	0.0000	0	
	No		5052-H32 .032 Sheet sf		96.0000	DESI02		\$106.28	0.0000	0	
			121660								\$582.06
	5		M6061T6B0.500X10. f		5/9/2012	5/4/2012	48.0000	\$12.13	0.0000	0	
	No		6061-T6 Bar .500 x f		48.0000	DESI02		\$582.06	0.0000	0	
			10.00								
			121660								\$45.65
	6		M6061T6B0.750X02. f		5/9/2012	5/4/2012	12.0000	\$3.80	0.0000	0	
	No		6061-T6 Bar .750 x f		12.0000	DESI02		\$45.65	0.0000	0	
			2.00								
			121660								\$235.64
	7		M6061T6B1.000X02. f		5/9/2012	5/4/2012	48.0000	\$4.91	0.0000	0	
	No		6061-T6 Bar 1.00 x f		48.0000	DESI02		\$235.64	0.0000	0	
			2.00								
			121660								\$53.95
	8		M6061T6B1.500X01. f		5/9/2012	5/4/2012	12.0000	\$4.50	0.0000	0	
	No		6061-T6 Bar 1.50 x f		12.0000	DESI02		\$53.95	0.0000	0	
			1.25								
			121660								\$74.70
	9		M6061T6B2.000X01. f		5/9/2012	5/4/2012	12.0000	\$6.13	0.0000	0	
	No		6061-T6 Bar 2.00 x f		12.0000	DESI02		\$74.70	0.0000	0	
			1.25								
			121660								

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date	Recv Date/ Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MIRB Qty/ Reject Qty	Book Amt
Vendor ID/Vendor Name	10	VC-COP001	Thyssenkrupp Materials CA Ltd								
PO16883			M6061T6B2.000X03. f		5/9/2012	5/4/2012	12.0000	\$17.46	0.0000	0	\$209.58
			500								
CAD	No		6061-T6 Bar 2.00 x f		12.0000	DESI02		\$209.58	0.0000	0	
			3.50								
			121660								
	11		M6061T6H1.000 f		5/9/2012	5/4/2012	12.0000	\$2.23	0.0000	0	\$26.72
	No		6061-T6 HexBar 1.00 f		12.0000	DESI02		\$26.72	0.0000	0	
			121660								
Total Received Quantity:											348.0000
Total Qty to Inspect (PO U/M):											0.0000
Total Reject Quantity:											0.0000
Total Receipt Value:											\$1,713.55
Total Balance Due Quantity:											0.0000

Ship From: **THYSSENKRUPP MATERIALS NA**  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 9057389033

**B I L L O F L A D I N G**

No: PEC 765520  
Ship Date 04May12 at 11:34 From PFW  
Probill  
Via VIM TRANSFER  
FOB CONCORD  
Frt PREPAID  
Route 0- 0 Manifest  
Vhcle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: (20115)  
DART AEROSPACE  
1270 ABERDEEN ST  
HAWKESBURY, ON K6A 1K7

Ship To: (1)  
DART AEROSPACE  
1270 ABERDEEN ST  
HAWKESBURY, ON K6A 1K7  
Tel: 613-632-9577 Fax: 613-632-1053

**B I L L O F L A D I N G**

1) Our Order PEC-446916- 1 Your PO # 16883  
STAINLESS STEEL SHEET 304-2B  
.0480 Nom X 48.0000" X 96.0000"

Heat Number Tag No  
0502414 63250

Quantity PCS  
96.00 SFT 3

Wt LBS  
192

**MTR**

2) Our Order PEC-446916- 2 Your PO # 16883  
ALUMINUM SHEET 5052-H32  
.0320 Nom X 48.0000" X 96.0000"

Heat Number Tag No  
114087 63252

Quantity PCS  
96.00 SFT 3

Wt LBS  
43

**MTR**

3) Our Order PEC-446916- 3 Your PO # 16883  
ALUMINUM FLT BAR ECONOPLT 6061-T6511  
.500" X 10.00" X 144.5000"

Heat Number Tag No  
201205804 63110

Quantity PCS  
48 ' 2.0000 " 4

Wt LBS  
288

**MTR**

4) Our Order PEC-446916- 4 Your PO # 16883  
ALUMINUM FLAT BAR 6061-T6511  
.750" x 2.00" X 144.0000"

Heat Number Tag No  
16276 63111

Quantity PCS  
12 FT 1

Wt LBS  
22

**MTR**

5) Our Order PEC-446916- 5 Your PO # 16883  
ALUMINUM FLAT BAR 6061-T6511  
1.00" x 2.00" X 144.0000"

Heat Number Tag No  
16107 63112

Quantity PCS  
48 FT 4

Wt LBS  
114

**MTR**

Page: 1 ....Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

Ship From: B I L L O F L A D I N G  
THYSSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 9057389033

No: PEC 765520  
Ship Date 04May12 at 11:34 From PFW  
Probill  
Via VIM TRANSFER  
FOB CONCORD  
Frt PREPAID  
Route 0- 0 Manifest  
Vhcle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: (20115)  
DART AEROSPACE

Ship To: (1)  
DART AEROSPACE

B I L L O F L A D I N G

6) Our Order PEC-446916- 6 Your PO # 16883

ALUMINUM FLAT BAR 6061-T6511

1.250" x 1.50" X 144.0000"

Heat Number  
15847

Tag No  
63113

Quantity  
12 FT

PCS  
1

Wt LBS  
26

MTR

7) Our Order PEC-446916- 7 Your PO # 16883

ALUMINUM FLAT BAR 6061-T6511

1.250" x 2.00" X 144.0000"

Heat Number  
15806

Tag No  
63114

Quantity  
12 FT

PCS  
1

Wt LBS  
35

MTR

8) Our Order PEC-446916- 8 Your PO # 16883

ALUMINUM FLAT BAR 6061-T6511

2.00" x 3.50" X 144.0000"

Heat Number  
201205627

Tag No  
63115

Quantity  
12 FT

PCS  
1

Wt LBS  
101

MTR

9) Our Order PEC-446916- 9 Your PO # 16883

ALUMINUM HEXAGON BAR 6061-T6511

1.00" X 144.0000"

Heat Number  
201200184

Tag No  
63116

Quantity  
12 FT

PCS  
1

Wt LBS  
12

MTR

TOTAL:

Tags  
9

PCS  
19

LBS  
833

Heat Number

114087

15806

15847

16107

16276

201200184

\*\*\* Chemical Analysis \*\*\*

Page: 2 ....Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY.

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.

MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

Ship From: B I L L O F L A D I N G  
THYSSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 9057389033

No: PEC 765520  
Ship Date 04May12 at 11:34 From PFW  
Probill  
Via VIM TRANSFER  
FOB CONCORD  
Frt PREPAID  
Route 0- 0 Manifest  
Vhcle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: ( 20115)  
DART AEROSPACE

Ship To: ( 1)  
DART AEROSPACE

201205627

B I L L O F L A D I N G

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT  
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR  
TO SHIPPING.

ATTN: CHANTAL/LINDA

\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*

\*\* REFERENCED ON IT \*\*

TOTAL G.W 1 SKID 1 BDL 843 LBS

\*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA  
CONCORD, ONT.\* \*\*\* 9:00 AM TO 4:00 PM \*\*\*

\*\*\*\* TEL. 800-926-2600 \*\*\*\*

\*\*\*\*\*

\* WE STOCK STAINLESS STEEL \*

\* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT \*

\*\*\*\*\*

\*\*\*PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE  
ADDED TO EVERY ORDER.\*\*\*

Page: 3 .... Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE  
STAINLESS STEEL SHEET 304-2B  
.0450 IN THK X 48.0000" X 96.0000"  
PART NO:

FORM 16883

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PBC-765520-001

4 May 12  
Pg 1/1

## Certificate of Mill Test Results

A company of  
ThyssenKrupp  
Steel AG

ThyssenKrupp Mexinox

### TEST REPORT (CERTIFICADO)

CUSTOMER (CLIENTE)

MEXINOX USA

### PRODUCT IDENTIFICATION

ITEM NO.	QTY REQ.	PIECES	HEAT	TYPE AND FINISH	DIMENSIONS	IN	GRINDING	IN	NET WT.
1	207525 Q204	1	Q204-2B	304 / 2B	48.00 X 96.00 X .0450	207525	1220	15.991	7.228

### CHEMICAL COMPOSITION

ITEM	C	Cr	Mn	N	Si	P	S	SE	OTHER ELEMENTS (APPROX. ELEMENTS)
1	0.060	19.100	1.200	0.030	0.030	0.020	0.010	0.001	

### MECHANICAL PROPERTIES

ITEM	TEST NO.	D	TENSILE S.	YIELD S.	ELONGATION	HARDNESS
1	A889888	L	580 MPa	450 MPa	53.6	(HEAD/TAIL) 82.0 / 80.0

THIS MATERIAL IS MADE OF HARCOR'S COMPOSITION. THE SHEET, IT'S  
TEST OF INTERMEDIATE COMPOSITION / ANALYSIS OF COMPOSITION INTERMEDIATE : ON  
THE MECHANICAL PROPERTIES TESTS CHEMICAL COMPOSITION ANALYSIS TO ASTM A 240/A 240M-214 STD. FOR, AND IT COME WITH THE  
MECHANICAL PROPERTIES TESTS CHEMICAL COMPOSITION ANALYSIS TO ASTM A 240/A 240M-214 STD. FOR, AND IT COME WITH THE  
MECHANICAL PROPERTIES TESTS CHEMICAL COMPOSITION ANALYSIS TO ASTM A 240/A 240M-214 STD. FOR, AND IT COME WITH THE



We hereby certify that in compliance of the terms and conditions set forth in the contract, we have produced the material in accordance with the requirements of the contract.

HECHO EN MEXICO / MADE IN MEXICO

CB

ELABORATED BY  
Cecilia Balleza Salazar

EMITIDO: 13/13/2011 11:18:11

FORMA No. 39-877-02 Rev. 2

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE  
ALUMINUM FLT BAR ECONOPLT 6061-T6511  
500" X 10.00" X 144.5000"  
PART NO.

## Certificate of Mill Test Results

BL PEC-765520-003

4May12  
Pg 1/1



**SERVICE CENTER METALS**  
5850 Quetty Way  
Prince George, VA 23875

### CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
147904	2

**BILL TO**  
ThyssenKrupp Materials NA  
SMP TO  
ThyssenKrupp Materials NA PEC  
Quantity Certified 1,982 lbs 28pcs  
MANIFEST NUMBER 156448  
CUSTOMER PO PEC-237985  
CUSTOMER PART NUMBER PL0734 X 144.5  
DIE NUMBER PL0734  
ALLOY/TEMPER 6061-T6511E  
BASE OF SHIPMENT 4/11/2012  
SUPERVISION David Schroeder  
CERTIFICATION  
ASTM-B221-08 StencilContinuous  
SPECIFICATION  
AMS-QQA-200/8

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA from ingot melted and cast in the United States or Canada.

#### Mechanical Properties

Test	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
1	201205804	04/01/12	44.9	42.2	14.5

#### Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Total	Melted In
0312179	6061	0.70	0.29	0.33	0.09	0.87	0.09	0.04	0.02	0.05	0.15	United States of America

Print Date: 4/11/2012



# THYSSENKRUPP MATERIALS NA

**DART AEROSPACE**

ALUMINUM EXTRUDED AT BAR 6061-T6511  
1.00" x 2.00" x 144.0000"

PART NO.

PO/Ref 16883

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PEC-765520-005

4 May 12  
Pg 1/1



TEL: (416) 745-4444 FAX: (416) 745-0925 1-800-668-7210  
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4

<http://www.extrudex.com>

## MILL TEST REPORT

ROLL NO	DATE CODE	LOT NUMBER	DATE OF SHIPMENT	EXTRUDEX ORDER NO.	MANIFEST NO.
THYSSENKRUPP MATERIALS, NA	1	0.87	3/12/2012	143110 - 12	262440
SHIP TO	CUSTOMER PO	ALLOY	TEMPER	SALESMAN	
THYSSENKRUPP MATERIALS, NA	PEC-237247	6061	T6511	FORBES DODWELL	
SO DESCRIPTION	CUSTOMER PART NUMBER	PART DESCRIPTION			
1"x2" FB	1-1000-2000				
				CERTIFICATION	
				MILL TEST ASTM B221	

## Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Mar/09/12	43.0	37.6	10.30	85.2, 85.5, 85.8	

## Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Sb	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
A.11 16107 6061	0.55	0.23	0.20	0.06	0.81	0.05	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Remainder 0.00

David Natale  
Quality Control Manager

1 - CUSTOMER COPY

MILL TEST REPORT

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM SHEET 5052-H32  
.0320 Nom X 48.0000" X 96.0000"  
PART NO.

PO/Rel 16883

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-765520-002

4May12

Signed by: \_\_\_\_\_

Pg 1/1

1732

**ZHENGZHOU MINGTAI INDUSTRY CO., LTD**  
CHANGCHUN ROAD NO.6, HIGH AND NEW TECHNOLOGY ZONE,  
ZHENGZHOU HENAN CHINA  
TEL: +86-371-67896715 FAX: +86-371-67896612

### MILL TEST CERTIFICATE

TO: **OLBERT METAL SALES LIMITED**  
989 DERRY RD. EAST, SUITE 305 MISSISSAUGA,  
ONTARIO CANADA L5T 2J6

INVOICE NO.: ZOTO110601  
CONTRACT NO: 1732/1704/1720  
LOADING PORT: QINGDAO, CHINA  
DESTINATION: TORONTO, CANADA  
SHIPPING MARKS: N/M

DATE: JUN.29, 2011

#### DESCRIPTION OF GOODS:

ALUMINUM SHEET 5052 H32 CERTIFIED  
TO ALL AA, ASTM B209, AMS/QQA 250/B, AMS 4016L SPECS.  
ALUMINUM SHEET 3003 H14 CERTIFIED TO ALL AA,  
ASTM B209, AMS/QQA 250/2, AMS 4008 SPECS.  
CIF TORONTO, REF:1732/1704/1720

#### CHEMICAL COMPOSITION

Heat No.	Alloy	Si	Fe	Cu	Mn	Mg	Zn	Ti	Cr	Others	Al
112474	5052	0.098	0.318	0.01	0.066	2.221	0.007	0.014	0.196	0.15	REMAINDER
113780	5052	0.083	0.296	0.021	0.067	2.406	0.023	0.021	0.228	0.15	REMAINDER
114087	5052	0.122	0.318	0.013	0.085	2.215	0.009	0.016	0.197	0.15	REMAINDER
114114	5052	0.102	0.326	0.012	0.049	2.267	0.008	0.01	0.185	0.15	REMAINDER
114115	5052	0.108	0.298	0.009	0.055	2.26	0.007	0.018	0.168	0.15	REMAINDER
B11051024	3003	0.116	0.483	0.0968	1.1	0.0062	0.0107	0.0379	/	0.15	REMAINDER
D1105031	3003	0.122	0.483	0.0937	1.07	0.0065	0.0088	0.0319	/	0.15	REMAINDER
D1105084	3003	0.118	0.422	0.0921	1.06	<0.0050	0.0082	0.0306	/	0.15	REMAINDER
D1105130	3003	0.119	0.47	0.0947	1.13	<0.0050	0.0085	0.036	/	0.15	REMAINDER

#### MECHANICAL PROPERTY

Heat No.	Alloy	Temper	Specs(in)	Tensile strength (Mpa/ ksi)	Elongn %
112474	5052	H32	0.188*48*120	203	29
113780	5052	H32	0.188*48*120	204	30
114087	5052	H32	0.032*48*120/96	229	33
114114	5052	H32	0.125*48*120/96	213	31
114115	5052	H32	0.188*60*144/120	182	26
B11051024	3003	H14	0.08*60*120	170	25
D1105031	3003	H14	0.25*48*96	169	25
D1105084	3003	H14	0.25*48*120	169	25
D1105130	3003	H14	0.188*48*96/120	167	24

PRODUCER: ZHENGZHOU MINGTAI INDUSTRY CO., LTD

ZHENGZHOU MINGTAI INDUSTRY CO., LTD.  
郑州明泰实业有限公司

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM AT BAR 6061-T6511

.750" x 2.00" x 144.0000"

PO/Ref 16883  
We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-765520-004

Signed by:

4May12  
Pg 1/1



TEL: (416)745-4444 FAX: (416)745-0925 1-800-668-7210  
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4

<http://www.extrudex.com>

### MILL TEST REPORT

ROLL TO: THYSSENKRUPP MATERIALS, NA  
SHIP TO: THYSSENKRUPP MATERIALS, NA  
SO DESCRIPTION: .750"x2" FB

Cert Code: 1  
CUSTOMER PO: PEC-237419  
CUSTOMER PART NUMBER: 1-750-2000

DIE NUMBER: 021 S 2436  
ALLOY: 6061 TEMPER: T6511  
DATE OF SHIPMENT: 3/16/2012  
SALESMAN: FORBES DODWELL

EXTRUDEX ORDER NO. 143348 — 5  
MANIFEST NO. 262754  
MADE IN CANADA

CERTIFICATION: MILL TEST ASTM B221

### Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Mar/15/12	41.1	36.9	15.10	86.3, 86.0, 85.6	

### Chemical Composition

Cast Number	SI	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
A.11 16276 6061	0.56	0.19	0.19	0.06	0.82	0.05	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

David Natale  
Quality Control Manager

1 - CUSTOMER COPY

MILL TEST REPORT

# THYSSENKRUPP MATERIALS NA

P.O./Ref 16883

Certificate of Mill Test Results

ALUMINUM PLATE BAR 6061-T6511  
1.250" x 1.50" x 144.0000"  
PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PEC-765520-006

4 May 12  
Pg 1/1



TEL: (416) 745-4444 FAX: (416) 745-0925 1-800-668-7210  
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4

<http://www.extrudex.com>

## MILL TEST REPORT

BILL TO THYSSENKRUPP MATERIALS NA	1773	CONT CODE: 1	0.42	ONE NUMBER S	4676	DATE OF SHIPMENT 2/10/2012	EXTRUDEX ORDER NO. 142261	MANIFEST NO. 261058
SHIP TO THYSSENKRUPP MATERIALS NA	1773	CUSTOMER PO PEC-236572		ALLOY 6061	TEMPER T6511	SILVERMAN FORBES DODWELL	MADE IN CANADA	
SO DESCRIPTION 1.25"x1.5" FB		CUSTOMER PART NUMBER 1-1250-1500		PART DESCRIPTION			CERTIFICATION MILL TEST ASTM B221	

## Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Feb08/12	43.8	40.4	15.00	91.5,91.0,90.8	

## Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
A.11 15847 6061	0.55	0.19	0.22	0.07	0.82	0.04	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Remainder 0.00

David Nizale  
Quality Control Manager

1 - CUSTOMER COPY

MILL TEST REPORT

# THYSSENKRUPP MATERIALS NA

PO/Ref 16883

Certificate of Mill Test Results

ALUMINUM PLATE BAR 6061-T6511  
2.00" x 3.50" x 144.0000"  
PART NO.

BL PEC-76520-008

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:



**SERVICE CENTER METALS**  
5850 Quality Way  
Prince George, VA 23875

## CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

BL TO

ThyssenKrupp Materials NA

SHEET

ThyssenKrupp Materials NA PEC

Quantity Certified

1,196 lbs

12 pcs

CUSTOMER PART NUMBER

RB0148

DESCRIPTION

SCRB 2.000x3.500

MANIFEST NUMBER

156446

DE NUMBER

RB0148

DATE OF SHIPMENT

4/11/2012

CERTIFICATION

ASTM-B221-08 StencilContinuous

ITEM

2

CUSTOMER PO

PEC-237957

ALLOY / TEMPER

6061-T6511

SALES PERSON

David Schroeder

SPECIFICATION

AMS-QQA-200/8

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA from ingot melted and cast in the United States or Canada.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

### Mechanical Properties

Tests Lot No.

1 201205627

Test Date

03/31/12

Ultimate Tensile Strength (KSI)

51.6

Yield Strength (KSI)

48.3

Percent Elongation

14.4

### Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Total	Melted In
0312128	6061	0.75	0.39	0.34	0.11	0.88	0.11	0.05	0.03	0.05	0.15	United States of America
0312135	6061	0.74	0.36	0.32	0.09	0.88	0.09	0.05	0.02	0.05	0.15	

Print Date: 4/11/2012

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM PLAT BAR 6061-T6511

1.250" x 2.00" x 144.0000"

PART NO.

PO/Rel 16883

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PEC-765520-007

4 May 12  
Pg 1/1

## Certificate of Mill Test Results



TEL: (416) 745-4444 FAX: (416) 745-0925 1-800-668-7210  
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4

<http://www.extrudex.com>

### MILL TEST REPORT

BAL NO	1773	Part Code:	1	0.58	DIE NUMBER	S	22772	DATE OF SHIPMENT	2/15/2012
THYSSENKRUPP MATERIALS NA	1773	CUSTOMER PO	PEC-236515	ALLOY	6061	TEMPER	T6511	SALESMAN	FORBES DODWELL
SO DESCRIPTION	1.25"x2" FB	CUSTOMER PART NUMBER		PART DESCRIPTION					
EXTRUDEX ORDER NO.					MANIFEST NO.				
142198 - 4					261198				
MADE IN CANADA									
CERTIFICATION					MILL TEST ASTM B221				

### Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Feb/13/12	43.8	40.5	11.90	89.3, 89.5, 89.6	

### Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
A.11 15806 6061	0.59	0.20	0.20	0.07	0.81	0.04	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Remainder 0.00

David Natale  
Quality Control Manager

1 - CUSTOMER COPY

MILL TEST REPORT

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM HEXAGON BAR 6061-T6511

1.00" X 1.44,0000"

PART NO.

P.O./Rel 16883

We certify that this is a true copy of the report furnished by the producer of the metal, on data resulting from tests made in approved labs.

Signed by:

BL DEC-765520-009

4 May 12  
Pg 1/1



**SERVICE CENTER METALS**  
5850 Quality Way  
Prince George, VA 23875

## CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
141851	14

BILL TO ThyssenKrupp Materials NA SHIP TO ThyssenKrupp Materials NA PEC Quantity Certified 2,163 lbs 177 pcs	INQUIRY NUMBER 148740 CUSTOMER PO PEC-235810 CUSTOMER PART NUMBER XB0056	DATE OF SHIPMENT 1/13/2012 ALLOY/TEMPER 6061-T6511 DESCRIPTION Hex 1.000+/- .005	CERTIFICATION ASTM-B221-08 StencilContinuous SPECIFICATION AMS-QQA-200/8	SALESPERSON David Schroeder
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We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

Mechanical Properties		Test Date		Ultimate Tensile Strength (KSI)		Yield Strength (KSI)		Percent Elongation	
Tests	Lot No.								
1	201200184		01/08/12	53.2		50.0		15.9	
2	201200184		01/08/12	53.7		50.9		14.5	
1	201200302		01/12/12	49.0		46.2		15.6	
2	201200302		01/12/12	48.7		45.9		15.0	
3	201200302		01/12/12	48.6		45.7		16.0	

### Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Total	Melted in
C71R0005	6061	0.75	0.37	0.32	0.10	0.89	0.16	0.01	0.02	0.05	0.15	United States of America
C71R0006	6061	0.77	0.40	0.35	0.11	0.89	0.17	0.01	0.01	0.05	0.15	

*Calvin J. Wiggins*

Print Date: 1/13/2012

Calvin J. Wiggins, Director of Quality & Technical Services



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO16883

Purchase Order Date 5/02/12

PO Print Date 5/02/12

Page Number 1 of 5

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

Contact Name  
Vendor Phone 905 669 9444  
Vendor Fax 905 738 9033  
Vendor Account Nbr

Buyer Chantal Lavoie  
Requisition Nbr  
Tax Resale Nbr 10127-2607  
Terms Net 30  
Currency CAD  
FOB Destination-Collect

Ship To : DART AEROSPACE LTD 1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**FAKED**  
613 632 1053

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M174B1.250X02.000 B16	17-4 SS Bar 1.250 x 2.00	5/09/12 Yes	12.00 f	Yours ppd	\$35.2500	\$423.00
		Special Inst:	MATERIAL: 17-4 PH SS BAR AS PER AMS 5604/5643 GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD TENDILE STRENGTH = 100 KSI MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI				
2	M303B2.500X2.000 B16	303 BAR 2.5" X 2"	5/09/12 Yes	4.00 f	Yours ppd	\$83.7500	\$335.00
		Special Inst:	MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: 304/316 NOT ACCEPTABLE				
3	M304S18GA ✓	304/316 .050 Sheet	5/09/12 Yes	96.00 sf	Yours ppd	\$3.9000	\$374.40

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable

Change Nbr: 1

Change Date: 5/02/12





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO16883**

Purchase Order Date 5/02/12

PO Print Date 5/02/12

Page Number 2 of 5

**Order From :**

VC-COP001

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

**Contact Name**

**Vendor Phone**

905 669 9444

**Vendor Fax**

905 738 9033

**Vendor Account Nbr**

**Buyer**

Chantal Lavoie

**Requisition Nbr**

**Tax Resale Nbr**

10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

Destination-Collect

**Special Inst:**

MATERIAL: AISI 304/316 SS SHEET  
ANNEALED 2B FINISH  
AS MIL-S-5059 OR AMS 5513 (304) OR  
AMS 5524 (316)  
OR ASTM A240 OR ASME SA240

4

M5052H32S.032

5052-H32 .032 Sheet

5/09/12

Yes

96.00

sf

Yours ppd

\$1.0938

\$105.00

**Special Inst:**

MATERIAL: 5052-H32 ALUMINUM  
SHEET AS PER  
QQ-A-250/8 OR AMS-QQ-A-250/8 OR  
AMS 4016  
OR ASTM B209

5

M6061T6B0.500X10.000

6061-T6 Bar .500 x 10.00

5/09/12

Yes

48.00

f

Yours ppd

\$11.9800

\$575.04

**Special Inst:**

MATERIAL: 6061-  
T6/T651/T6510/6511T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8  
OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR  
AMS 4160 OR ASTM B211 OR ASTM  
B221

6

M6061T6B0.750X02.000

6061-T6 Bar .750 x 2.00

5/09/12

Yes

12.00

f

Yours ppd

\$3.7583

\$45.10

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable

Change Nbr: 1

Change Date: 5/02/12



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO16883**

Purchase Order Date 5/02/12

PO Print Date 5/02/12

Page Number 3 of 5

**Order From :**

VC-COP001

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

**Contact Name**

**Vendor Phone**

905 669 9444

**Vendor Fax**

905 738 9033

**Vendor Account Nbr**

**Buyer**

Chantal Lavoie

**Requisition Nbr**

**Tax Resale Nbr**

10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

Destination-Collect

**Special Inst:**

MATERIAL: 6061-  
T6/T651/T6510/6511T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8  
OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR  
AMS 4160 OR ASTM B211 OR ASTM  
B221

7	M6061T6B1.000X02.000	6061-T6 Bar 1.00 x 2.00	5/09/12 Yes	48.00 f	Yours ppd	\$4.8500	\$232.80
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**Special Inst:**

MATERIAL: 6061-  
T6/T651/T6510/6511T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8  
OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR  
AMS 4160 OR ASTM B211 OR ASTM  
B221

8	M6061T6B1.500X01.250	6061-T6 Bar 1.50 x 1.25	5/09/12 Yes	12.00 f	Yours ppd	\$4.4417	\$53.30
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**Special Inst:**

MATERIAL: 6061-  
T6/T651/T6510/6511T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8  
OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR  
AMS 4160 OR ASTM B211 OR ASTM  
B221

9	M6061T6B2.000X01.250	6061-T6 Bar 2.00 x 1.25	5/09/12 Yes	12.00 f	Yours ppd	\$6.1500	\$73.80
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No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable

Change Nbr: 1

Change Date: 5/02/12



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO16883**

Purchase Order Date 5/02/12

PO Print Date 5/02/12

Page Number 4 of 5

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

Contact Name

Vendor Phone 905 669 9444

Vendor Fax 905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Special Inst:

MATERIAL: 6061-  
T6/T651/T6510/6511T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8  
OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR  
AMS 4160 OR ASTM B211 OR ASTM  
B221

10 M6061T6B2.000X03.500

6061-T6 Bar 2.00 x 3.50

5/09/12  
Yes

12.00  
f Yours ppd

\$17.2542

\$207.05

Special Inst:

MATERIAL: 6061-  
T6/T651/T6510/6511T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8  
OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR  
AMS 4160 OR ASTM B211 OR ASTM  
B221

11 M6061T6H1.000

6061-T6 HexBar 1.00

5/09/12  
Yes

12.00  
f Yours ppd

\$2.2000

\$26.40

Special Inst:

MATERIAL:6061-  
T6/T651T6510/T6511/T62 ALUMINUM  
HEX BAR  
SPEC: QQ-A-225/8 OR AMS-QQ-A-225/8  
(OR AMS4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8(OR  
AMS 4160) OR ASTM B211 OR ASTM  
B221

12 M7075T73B2.500X03.25

7075-T73 Bar 2.50 x 3.25

5/09/12  
Yes

4.00  
f Yours ppd

\$66.2500

\$265.00

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable

Change Nbr: 1

Change Date: 5/02/12



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO16883**

Purchase Order Date 5/02/12

PO Print Date 5/02/12

Page Number 5 of 5

**Order From :**

VC-COP001

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

**Contact Name**

**Vendor Phone**

905 669 9444

**Vendor Fax**

905 738 9033

**Vendor Account Nbr**

**Buyer**

Chantal Lavoie

**Requisition Nbr**

**Tax Resale Nbr**

10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

Destination-Collect

**Special Inst:**

7075-T73 (OR 7075-  
T7351/T73510/T73511) BAR PER ASM-  
QQ-A-200/11 OR AMS-QQ-A-225/9 (AMS  
4124) OR AMS-QQ-A-250/12 (AMS 4078)

**PO Total:**

**\$2,715.89**

**MATERIAL CERTIFICATION  
REQ'D UPON DELIVERY**

Change Nbr: 1

Change Date: 5/02/12

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable